Overview of South Coast AQMD Incentive Programs and Their Funding Structure



California NGV Partnership (CNGVP)

Goals & Objectives

- 1. Promote RD&D and deployment and commercialization efforts to advance NG engine and fueling technology
- Increase awareness and urge the active participation among local, state, and federal policymakers regarding the use of NGVs and NG as a low emission fuel
- 3. Promote availability of incentives and technical assistance for deployment of NGVs and infrastructure

Goals & Objectives

- 4. Encourage the purchase of dedicated NGVs by conducting public outreach for local, state, and federal purchasing programs
- 5. Establish as its goal the deployment of specific numbers and types of light-, medium-, and heavyduty NGVs and infrastructure during the next 3, 5, and 10 years

Organization Structure

- The Partnership is led by a Steering Committee managed by the Chair
- The Vice-Chair manages the Steering Committee in absence of the Chair and will become the next Chair
- The Steering Committee is comprised of Voting and Associate members

Organization Structure

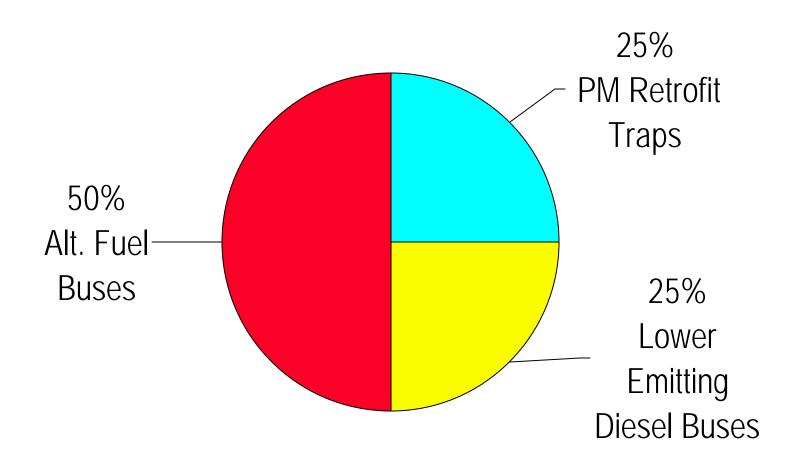
- Voting Members Decide on Partnership's activities, project plans, budget, and expenditures
- Associate Members Play a supporting role by providing specific technical expertise and input

Steering Committee Function

- Create, assign and direct specific tasks to Working Groups
- Decide on funding, policies, projects, and activities
- Ensure progress in achieving Partnership's goals
- Meet four times per year
- Contractual agreements and administrative tasks shall be carried out by SCAQMD Executive Officer and his designee after approval by the Steering Committee
- SCAQMD will provide administrative support

Lower-Emission School Bus Replacement and PM Retrofit Program

State's Funding Distribution



Recent School Bus Awards

Fiscal Year	New CNG Buses	New Diesel Buses	PM Traps	Total Award (MM\$)
00 - 01	102	67		\$17.9
01 - 02	39	20		\$6.8
00 - 02			1058	\$7.4
Total	141	87	1058	\$32.1

New Program Announcement PA 2003 -05 (FY 2002 -2003)

- TOTAL: \$10.9 Million (Additional Money)
 - \$5 Million from EPA
 - \$4.4 Million State Clean Backup Generator (BuG) Program
 - \$1.5 Million CARB Lower-Emissions School Bus Program
 - All Funds Will Be Awarded in Compliance With AB1390 (Firebaugh)

Funding Targets

- \$7. 9 Million for 67 new CNG Buses (Replacement)
 - 10% of Funds for CNG Infrastructure (Slow fill)
- \$3.0 Million for 430 PM Trap Retrofits (on 1994 and newer Diesel Buses)
- \$250,000 for PM Traps on Backup Generators in Schools (Private Schools can apply as well)

Carl Moyer Incentive Program Update

General Guidelines

- Assists in the Purchase of Low-Emission Heavy-duty Engine Technologies
- Requires 30% NOx Reduction for New Vehicles and 15% NOx Reduction for Repowers/Retrofits
- On-Road Applications Diesel to Alternative Fuel Conversion Only
- Off-Road Applications -Diesel to Alternative-Fuel Conversion or to Diesel Conversion Allowed

Carl Moyer Program Available Funds FY 2001-02

SOURCE	YEAR	AMOUNT
CARB	FY 01-02	\$7,055,564
Rollover Funds	FY 99-00	\$13,000
	FY 00-01	\$4,865,562
Turnback Funds	FY 98-99	\$412,000
	FY 99-00	\$197,893
	FY 00-01	\$2,883,065
TOTAL		\$15,427,084

Proposal Received

On Road

	\$9.185.774
Others	867,634
Transit	3,698,781
Class 7-8	\$4,619,359

Off-Road

	\$1,945,339
Construction	_1,886,032
Forklifts	39,808
Other	19,499

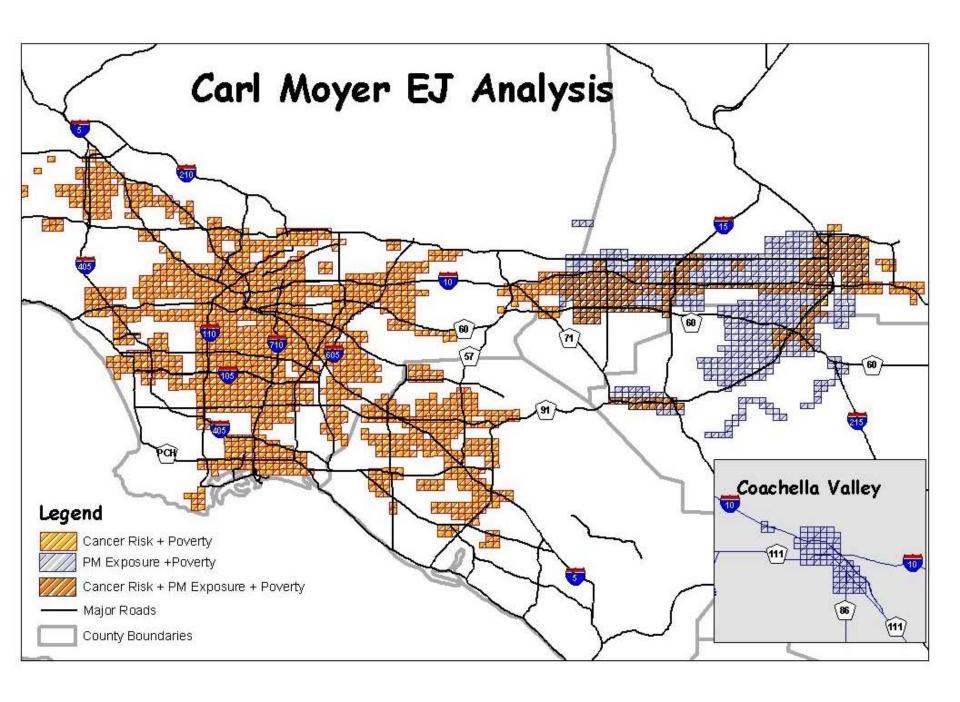
Marine Vessels **\$5,359,169**

GRAND TOTAL

\$16,490,282

Disproportional Impact Areas

- Poverty Level
 - Census Tracts with at least 10% of population under the poverty level
 - ----- And Either -----
- Toxics Exposure
 - 1,000 in a million and above cancer risk
- PM Exposure
 - Highest 15% Concentration
 - Above 46 micrograms per cubic meterannual avg.



Funding Recommendations

AQMD Funding Category	AQMD Funding Budget	Total Project NOx Reductions (tons/year)	Total Project PM Reductions (tons/year)	Number of Vehicles ²	Total Awards
ON-ROAD	\$7,000,000				
Class 7/8 Trucks	\$3,000,000	64.91	1.73	119	\$2,563,503
Other	\$2,000,000	28.90	1.18	82	\$1,355,871
Transit Buses	\$2,000,000	94.97	4.35	166	\$1,360,000
On-Road Sub Total		188.78	7.25	367	\$5,279,373
OFF-ROAD	\$4,500,000				
Marine	\$1,000,000	38.85	2.35	21	\$1,754,409
Construction	\$2,000,000	82.90	7.92	21	\$1,692,146
Forklift	no minimum	2.74	0.00	7	\$47,371
Other	no minimum	0.63	-0.02	1	\$19,499
Off-Road Sub Total		125.13	10.25	50	\$3,513,425
Grand Total		313.90	17.50	417	\$8,792,798

Program Implementation Summary

Number of Vehicles by Category

	On-Road		Off-Road	
	Trucks	Buses	Marine	Other
FY 1998-99	104	120	8	128
FY 1999-00	58	143	26	67
FY 200-01	588	507		222
FY 2001-02	201	166	38	29
TOTAL	951	936	72	446

Summary of Overall Emissions Reductions

	On-Road		Off-Road	
	NOx	PM	NOx	PM
FY 1998-99	65		356	
FY 1999-00	327		213	
FY 200-01	467	16	60	1
FY 2001-02	187	7	126	10
TOTAL	1046	23	755	11

RFP Re-Release

- \$6.6 Million
- Closes September 10th, 5 p.m.
- Disproportional Impact
- Cost Effectiveness

Future Funding

- Prop. 40 approved March 2002
 - \$50,000,000
 - Distributed over 2 years
 - ~\$8 10,000,000 for AQMD
- Initiative 51 (November Ballot)
 - 30% of sale tax from automobiles
 - Permanent source of funding
 - \$26 million statewide

NOx and PM Reduction Programs

NOx and PM Reduction Programs

- RECLAIM Executive Order Emissions Mitigation
 - NOx and CO
- RECLAIM Air Quality Investment Program (AQIP)
 - NOx
- Rule 1309.1 Priority Reserve
 - NOx, SOx, PM10, ROG, CO
- State Emissions Mitigation
 - NOx and PM
- State Backup Generator
 - NOx and PM

RECLAIM EO Emissions Mitigation

- Total Allocation: \$22.5 Million
- Board Approved Projects: \$12.1 Million
 - Marine Vessels: \$10.3 Million
 - Agricultural Pumps: \$1.8 Million
- Estimated Annual NOx Emission Reduction: 770 Tons
- Estimated Annual PM Emission Reduction: 40 Tons
- 4-Year NOx Cost Effectiveness: \$3,600/Ton

RECLAIM AQIP

- Total Allocation: \$2 Million
- Board Approved Marine Vessel Projects: \$1.5 Million
- Proposed School Bus Programs: \$0.5 Million
 - September 13 Board
- Marine Vessels
 - Estimated Annual NOx Emission Reduction: 155 Tons
 - Estimated Annual PM Emission Reduction: 9 Tons
 - 4-Year NOx Cost Effectiveness: \$2,700/Ton

Tug Boat



Tug Boat Engine



Rule 1309.1 Priority Reserve

Total Allocation: \$10.5 Million

Board Approved Projects

Microturbines: \$6.2 Million

Infrastructure: \$2 Million

State Emissions Mitigation

- Total CARB Allocation: \$29.5 Million
- Board Approved Projects: \$26.6 Million
 - Construction Equipment: \$11.2 Million
 - Marine Vessels: \$7 Million
 - On-Road: \$2.5 Million
 - Other (Forklifts, Infrastructure, GSE, etc.): \$5.9 Million
 - PM Trap Retrofit: \$3.1 Million
- Estimated Annual NOx Emission Reduction: 910 Tons
- Estimated Annual PM Emission Reduction: 60 Tons
- 4-Year NOx Cost Effectiveness: \$6,700/Ton

State Backup Generator

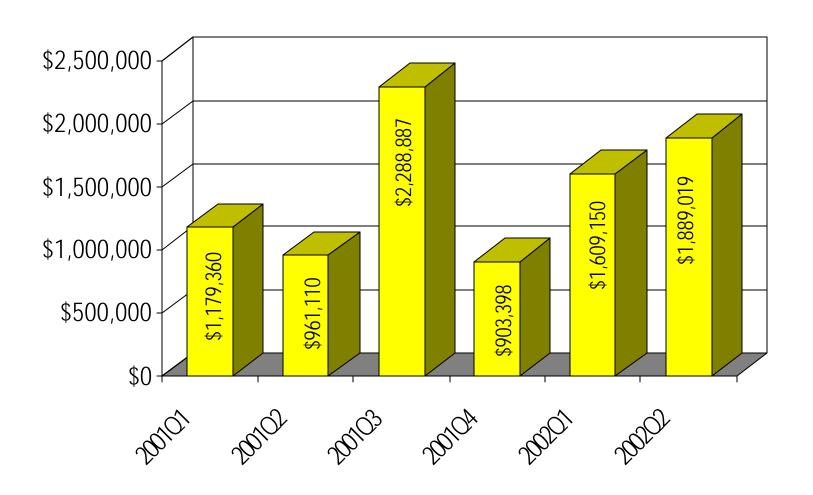
- Total CARB Allocation: \$5.6 Million
- Board Approved Projects
 - Ski Resort Equipment: \$1 Million
 - Snow Summit and Big Bear
 - Low-Emission Snow Making Machines
 - Generator PM Traps
- Lower-Emission School Bus Program: \$4.4 Million
 - Replacement
 - Retrofit
 - School Backup Generator PM Traps: \$0.25 Million

Rule 2202 Air Quality Investment Program (AQIP)

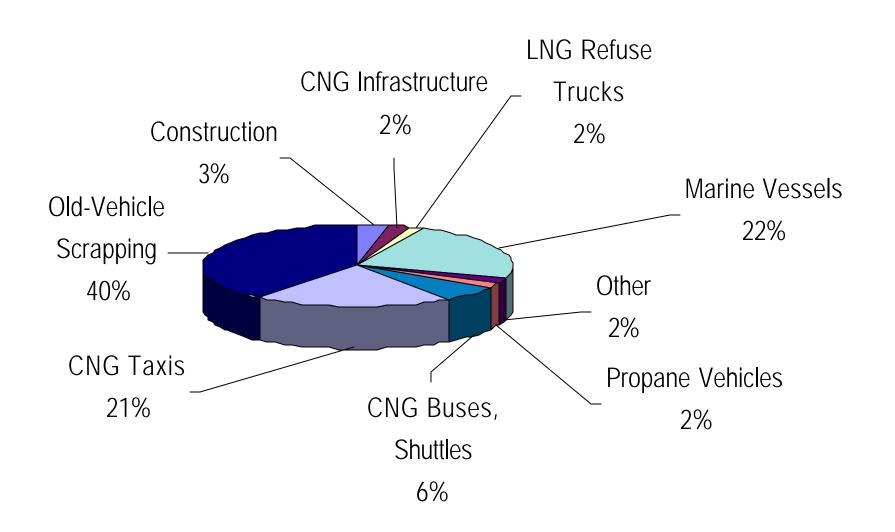
Air Quality Investment Program Background

- Rule 2202 employer compliance option
- Funds allocated to Program quarterly in varying amounts
- Revenue used to purchase emission reductions

AQIP Funds Collected



AQIP Fund Distribution



Zero Emission Vehicles Incentive Program

ZEV Grant Program

- \$8.8 Million Available Statewide
- Reduces incremental cost of ZEVs
- Up to \$9,000 per new or substantially upgraded ZEV through 2002
- SCAQMD Local Administration approved (\$2M initial allocation)
- Vehicles must be freeway capable; CARB certified
- All applicants eligible, including federal fleets 1/1/02

Vehicle Availability

- Limited "full-function" electric vehicles in the near term which qualify for incentive.
 - Toyota Rav4 EV (retail)
 - Nissan Altra (selected fleets)
 - Ford Th!nk City (US version Fall 2002)
 - DC eMotion mobility (2003 car-sharing)
- City electric vehicles (CEVs) demonstrations
- Many neighborhood electric vehicle (NEV) models

Example of Eligible ZEVs





